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- An improved emulsifier system for use in producing dehydrated starch ingredients wherein the emulsifier system comprises a polyglycerol ester having a polyglycerol backbone of from 2 to about 10 glycerol units wherein not more than about 40% of the hydroxyl groups of the polyglycerol are esterified with fatty acids (hereafter "PGE").
- An emulsifier system of Claim 1 wherein at least about 80% of the PGEs, by weight, have a polyglycerol backbone of from 2 to about 5 glycerol units.
- An emulsifier system of Claim 1 wherein at least about 80% of the PGEs, by weight, have a polyglycerol backbone of 2 or 3 glycerol units.
- An emulsifier system of Claim 1 wherein from about 20% to about 35% of the hydroxyl groups of the polyglyerol are esterified with fatty acids.
- An emulsifier system of Claim 1 comprising PGEs wherein at least about 80% of the ester groups are derived from saturated fatty acids.
- An emulsifier system of Claim 5 comprising PGEs wherein the ester groups are derived from one or more of C₁₄, C₁₆, C₁₈, C₂₀, and C₂₂ fatty acids.
- An emulsifier system of Claim 1 wherein the emulsifier system contains not more than about 15% free polyglycerol.
- 8. An emulsifier system of Claim 1 comprising a material selected from the group consisting of 2-1-P, 2-1-S, 3-1-P, 3-1-S, 4-1-P, 4-1-S, and mixtures thereof.
- 9. An emulsifier system of Claim 1 further comprising monoglyceride.
- 10. An emulsifier system of Claim 1 further comprising a lecithin.
- An emulsifier system of Claim 10 comprising from about 1% to about 25% lecithin, and from about 75% to about 99% PGE.
- 12. An emulsifier system of Claim 10 further comprising monoglyceride.

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- An improved emulsifier system for use in producing dehydrated starch ingredients wherein the emulsifier system comprises a DATEM.
- 14. A process for making dehydrated potato ingredients comprising the steps of:
 - (a) cooking potato pieces;
 - (b) forming the cooked potato pieces into a potato mash;
 - (c) drying the potato mash to provide dehydrated potato ingredients;
 - (d) optionally comminuting the dehydrated mash; and
 - (e) adding an emulsifier system anytime prior to formation of the dehydrated potato ingredients in step (c);

wherein the emulsifier system comprises an emulsifier selected from the group consisting of (i) a polyglycerol ester having a polyglycerol backbone of from 2 to about 10 glycerol units wherein not more than about 40% of the hydroxyl groups of the polyglycerol are esterified with fatty acids (PGE), (ii) a DATEM, and (iii) mixtures thereof.

- 15. A process according to Claim 14 wherein the emulsifier system comprises a PGE and wherein at least about 80% of the PGEs, by weight, have a polyglycerol backbone of from 2 to about 8 glycerol units.
- 16. A process according to Claim 14 wherein the emulsifier system comprises a PGE and wherein at least about 80% of the PGEs, by weight, have a polyglycerol backbone of from 2 to about 5 glycerol units.
- 17. A process according to Claim 16 wherein the emulsifier system comprises a PGE and wherein at least about 80% of the PGEs, by weight, have a polyglycerol backbone of 2 or 3 glycerol units.
- 18. A process according to Claim 14 wherein from about 20% to about 35% of the hydroxyl groups of the polyglycerol are esterified with fatty acids.
- 19. A process according to Claim 14 wherein the emulsifier system comprises PGEs wherein at least about 80% of the ester groups are derived from saturated fatty acids.
- 20. A process according to Claim 19 wherein the emulsifier system comprises PGEs wherein the ester groups are derived from C_{16} fatty acids, C_{18} fatty acids, or a mixture thereof.
- 21. A process according to Claim 14 wherein the emulsifier system contains no more than about 15% free polyglycerol.

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- A process according to Claim 14 wherein the emulsifier system comprises a material selected from the group consisting of 2-1-P, 2-1-S, 3-1-P, 3-1-S, 4-1-P, 4-1-S, and mixtures thereof
- A process according to Claim 14 wherein the emulsifier system further comprises monoglyceride.
- 24. A process according to Claim 23 wherein the ratio of PGEs to monoglyceride is from about 9:1 to about 1:9.
- A process according to Claim 14 wherein the emulsifier system further comprises a lecithin.
- 26. A process according to Claim 25 wherein the emulsifier further comprises monoglyceride.
- 27. A process according to Claim 25 wherein the emulsifier system comprises from about 1% to about 25% lecithin, and from about 75% to about 99% PGEs.
- 28. A process according to Claim 14 wherein the emulsifier system comprises a DATEM.
- A process according to Claim 14 wherein the emulsifier system comprises diglycerol monoester, triglycerol monoester or a mixture thereof.
- 30. A process according to Claim 29 wherein the emulsifier system comprises diglycerol monoester and triglycerol monoester and wherein the diglycerol monoester and triglycerol monoester together comprise at least about 50% of the total weight of the emulsifier system.
- 31. A dehydrated starch ingredient comprising an emulsifier selected from the group consisting of (i) a polyglycerol ester having a polyglycerol backbone of from 2 to about 10 glycerol units wherein not more than about 40% of the hydroxyl groups of the polyglycerol ester are esterified with fatty acids (hereafter "PGE"), (ii) a DATEM, and (iii) mixtures thereof.
- 32. A dough composition comprising:
 - from about 35% to about 85% of a starch-based flour comprising a dehydrated starch ingredient of Claim 31;
 - (b) from about 15% to about 50% added water; and

- (c) optionally a dough emulsifier.
- 33. A process for making a fabricated snack comprising the steps of:
 - (a) forming the dough composition of Claim 32 into a sheet;
 - (b) cutting snack pieces from the sheet; and
 - (c) frying the snack pieces in an oil.
- 34. A food product comprising the dehydrated starch ingredient of Claim 31.
- 35. A food product of Claim 34, wherein said food product is selected from the group consisting of mashed potatoes, potato soup, and potato sticks.
- 36. A food product of Claim 34, wherein said food product is a snack food product.
- 37. The snack food product of Claim 36, wherein said snack food product is a fabricated snack.